

6/12/01-3073

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June 12, 2001

Commander Atlantic Division Naval Facility Engineering Command 1510 Gilbert Street (Building N-26) Norfolk, Virginia 23511-2699

Attn:

Mr. Kirk Stevens

Navy Technical Representative

Code EV 23

Re:

Contract N62470-95-D-6007

Navy CLEAN, District III

Contract Task Order (CTO) 0120 Sites 28 and 65 Letter Report Marine Corps Base, Camp Lejeune

Dear Mr. Stevens:

Per our discussion at the May Partnering Meeting, the enclosed letter report documents the field programs and results from the recent field events at Sites 28 and 65. The data tables provided reflect the results of the data validation, which was not completed at the time of Partnering when the preliminary data was presented.

#### **SITE 28**

#### **Field Activities**

A shallow monitoring well was installed at Site 28 to evaluate potentially lead-impacted groundwater near the location where the highest concentrations of lead were found in soils during the Remedial Investigation (1994). A two-inch well was installed to a depth of 22 feet below groundwater surface (bgs) at the location shown on Figure 1. A groundwater sample was collected from this well and analyzed for Target Analyte List (TAL) metals. In addition, three soil samples were collected from the boring (surface, mid depth, and above the water table) and were also analyzed for TAL metals.

Table 1 summarizes the soil and groundwater results.

### Results

Soil Investigation

The inorganics arsenic and iron were detected at concentrations exceeding both Region III RBCs and Region IX PRGs in the surface soil samples. Lead was detected in site soils, but at concentrations below these criteria.



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#### Groundwater

Barium concentrations in groundwater were detected above the MCL and NCWQS. In addition, iron and manganese were detected at concentrations above the NCWQS. Lead was not detected in the groundwater sample.

#### **SITE 65**

#### Field Activities

Post-RI sampling was conducted near Site 65 to determine if contaminants were released from dissolved drum piles that were discovered in early 2001. The piles are located the wooded area to the south of Courthouse Bay Pond along its tributary to Courthouse Bay. A site walk was conducted in March 2001 and the location of piles was verified.

Soil, surface water, sediment, and groundwater samples were collected from the area shown on Figure 2 in April 2001. Table 2 summarizes the post-RI sampling analytical results.

#### Results

### Soil Investigations

Two surface soil and four subsurface soil samples were collected at Site 65 in April of 2001 and were analyzed for VOCs, SVOCs, pesticides, PCBs, herbicides, and metals. VOCs, SVOCs, pesticides, herbicides, and metals were detected in the surface soil samples. The inorganics aluminum, copper, and sodium were detected at concentrations exceeding both Region III RBCs and Region IX PRGs. Thirteen inorganics were detected at concentrations exceeding two times base background concentrations.

VOCs, SVOCs, pesticides, herbicides, and inorganics were also detected in subsurface soils. The inorganic arsenic was detected at concentrations exceeding both Region III RBCs and Region IX PRGs. The essential nutrients calcium and sodium were detected at concentrations exceeding two times base background concentrations.

The source of inorganics in surface and subsurface soils at Site 65 is believed to be rusting metal debris disposed of at the site.

### Groundwater Investigation

Groundwater samples were collected from three temporary wells. VOCs, total, and dissolved metals were detected in groundwater. Of these compounds, both total and dissolved concentrations of iron and manganese exceeded NCWQS. These inorganics are normally found at similar concentrations in groundwater throughout the Base.



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# Surface Water and Sediment Investigations

Three surface water and sediment samples were collected. VOCs and metals were detected in surface water. The metals arsenic, chromium, copper, iron, lead, manganese, thallium, and zinc were detected at concentrations exceeding EPA Tier II freshwater screening values and/or NCWQS for surface water. Water evaporation and soil erosion are suspected to be the source of elevated inorganics in the surface water.

VOCs, SVOCs, pesticides, herbicides, and metals were detected in sediment. The pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha chlordane, dieldrin, endrin, endrin aldehyde, endrin ketone, and gamma chlordane were detected at concentrations exceeding Region IV ecological screening levels for freshwater. The levels detected in these samples are similar to base-wide concentrations from the historical use of pesticides at Camp Lejeune. The inorganics barium, copper, and lead were also detected at concentrations exceeding Region IV ecological screening levels for freshwater. The inorganics are suspected to be the result of metals precipitation accumulated within the surface water as evaporation occurs.

Should you have any questions or comments on the enclosed letter, please do not hesitate to contact me at (412) 269-2033.

Sincerely,

BAKER ENVIRONMENTAL, INC.

Richard E. Bonelli, P.G. Activity Coordinator

REB/lp

cc:

Mr. Thomas Burton, MCB, Camp Lejeune (w/attachments)

Mr. Rick Raines, MCB, Camp Lejeune (w/attachments)

Mr. Channing Blackwell, LANTDIV (w/attachments)

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Mr. Jim Dunn, OHM/IT (w/attachments)

Mr. Scott Bailey, CH2M HILL (w/attachments)

Mr. Dave Collins, CH2H HILL (w/attachments)

TABLE 1

### METALS IN SOIL AND GROUNDWATER - APRIL 2001 OPERABLE UNIT NO.7 - SITE 28 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Media       | Fraction     | Detected<br>Organics/Inorganics |            | Site Concentrations |  |                        |  |  |
|-------------|--------------|---------------------------------|------------|---------------------|--|------------------------|--|--|
|             |              |                                 | Min. Conc. | Max. Conc.          | Location(s) of<br>Maximum<br>Concentration | Detection<br>Frequency |  |  |
| Soil        | Total Metals |                                 |            |                     |  |                        |  |  |
|             |              | Aluminum                        | 3850 J     | 4620 J              | 28-MW09-02D                                | 4/4                    |  |  |
|             |              | Antimony                        | 0.46 J     | 2.9 J               | 28-MW09-00                                 | 3/4                    |  |  |
|             |              | Arsenic                         | 1.3        | 1.7                 | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Barium                          | 17.2       | 37.9                | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Cadmium                         | 0.13 J     | 1.3 J               | 28-MW09-00                                 | 2/4                    |  |  |
|             | 1            | Calcium                         | 494 J      | 24700 J             | 28-N/W09-02                                | 4/4                    |  |  |
|             | i            | Chromium                        | 5.5        | 12.3                | 28-N/W09-00                                | 4/4                    |  |  |
|             |              | Cobalt                          | 0.71       | 0.99                | 28-MW09-00                                 | 3/4                    |  |  |
|             |              | Copper                          | 0.35 J     | 53.1                | 28-MNV09-00                                | 4/4                    |  |  |
|             |              | Iron                            | 2650       | 8520                | 28-NAV09-00                                | 4/4                    |  |  |
|             | 1            | Lead                            | 4.1        | 128                 | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Magnesium                       | 140        | 510                 | 28-MW09-02                                 | 4/4                    |  |  |
|             |              | Manganese                       | 9.1 J      | 144 J               | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Mercury                         | 0.024 J    | 0.26                | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Nickel                          | 0.65       | 6.3                 | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Potassium                       | 366        | 399                 | 28-MW09-02                                 | 3/4                    |  |  |
|             |              | Silver                          | 0.16 J     | 0.46 J              | 28-MW09-00                                 | 2/4                    |  |  |
|             |              | Vanadium                        | 7          | 9                   | 28-MW09-00                                 | 4/4                    |  |  |
|             |              | Zinc                            | 36.5       | 364                 | 28-MW09-00                                 | 3/4                    |  |  |
| Groundwater | Total Metals |                                 |            |                     |  |                        |  |  |
|             |              | Barium                          | 2290       | 2290                | GW09-01AD                                  | 2/2                    |  |  |
|             |              | Calcium                         | 18800      | 18800               | GW09-01AD                                  | 2/2                    |  |  |
|             |              | Chromium                        | 0.75 J     | 0.75 J              | 28-GW09-01A                                | 1/2                    |  |  |
|             |              | Iron                            | 2370       | 2380                | 28-GW09-01AD                               | 2/2                    |  |  |
|             |              | Magnesium                       | 34600      | 34600               | GW09-01AD                                  | 2/2                    |  |  |
|             |              | Manganese                       | 58.7       | 59                  | 28-GW09-01A                                | 2/2                    |  |  |
|             |              | Potassium                       | 88500 J    | 88500 J             | GW09-01AD                                  | 2/2                    |  |  |
|             | 1            | Sodium                          | 112000     | 113000              | 28-GW09-01AD                               | 2/2                    |  |  |

Notes:

Metal concentrations in soil are presented in mg/Kg (ppm); metal concentrations in groundwater are presented in µg/L (ppb).

TABLE 2

### POST RI SAMPLING - APRIL 2001 OPERABLE UNIT NO. 9 - SITE 65 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Media        | Fraction        | Detected<br>Organics/Inorganics       | Site Concentrations |              |  |                        |  |
|--------------|-----------------|---------------------------------------|---------------------|--------------|--|------------------------|--|
|              |                 |                                       | Min. Conc.          | Max. Conc.   | Location(s) of<br>Maximum<br>Concentration | Detection<br>Frequency |  |
| Surface Soil | Volatiles       |                                       |                     |              |  |                        |  |
|              |                 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 3 J                 | 3 J          | 65-IS01-00                                 | 1/2                    |  |
|              |                 | 1,2,4-Trichlorobenzene                | 0.6 J               | 0.6 J        | 65-IS01-00                                 | 1/2                    |  |
|              |                 | Toluene                               | 0.7 J               | 0.7 J        | 65-IS01-00                                 | 1/2                    |  |
|              |                 | Xylenes (Total)                       | 0.6 J               | 0.6 J        | 65-IS01-00                                 | 1/2                    |  |
|              | Semivolatiles   |                                       |                     |              |  |                        |  |
|              | · ·             | Caprolactam                           | 220 J               | 220 J        | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Phenol                                | 580                 | 580          | 65-IS01-00                                 | 1/2                    |  |
|              | 1               | bis(2-Ethylhexyl)phthalate            | 120 J               | 330 J        | 65-IS03-00                                 | 2/2                    |  |
|              | Pesticides/PCBs |                                       |                     |              | ***  |                        |  |
|              |                 | 4,4'-DDD                              | 4.8 J               | 4.8 J        | 65-IS01-00                                 | 1/2                    |  |
|              |                 | 4,4'-DDE                              | 1.3 J               | 1.3 J        | 65-IS01-00                                 | 1/2                    |  |
|              |                 | 4,4'-DDT                              | 3.4 J               | 3.4 J        | 65-IS01-00                                 | 1/2                    |  |
|              | ĺ               | Alpha-BHC                             | 1.3 J               | 1.3 J        | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Beta-BHC                              | 3.4 J               | 3.4 J        | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Delta-BHC                             | 1.3 J               | 1.3 J        | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Endosulfan I                          | 0.56 J              | 0.56 J       | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Endosulfan II                         | 2.1 J               | 2.1 J        | 65-IS01-00                                 | 1/2                    |  |
|              |                 | p,p'-Methoxychlor                     | 23 J                | 23 J         | 65-IS01-00                                 | 1/2                    |  |
|              | Herbicides      |                                       |                     |              |  |                        |  |
|              |                 | 2,4 5-TP (Silvex)                     | 1.2 J               | 3.4 J        | 65-IS01-00                                 | 2/2                    |  |
|              |                 | 2,4,5-T                               | 1.2 J               | 3.4 J        | 65-IS01-00                                 | 2/2                    |  |
|              |                 | 2,4-D                                 | 14                  | 14           | 65-IS01-00                                 | 1/2                    |  |
|              |                 | 2,4-DB                                | 34 J                | 41 J         | 65-IS01-00                                 | 2/2                    |  |
|              |                 | 4-Nitrophenol                         | 2.2 J               | 10 J         | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Dalapon                               | 11 J                | 14 J         | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Dicamba                               | 2.1 J               | 2.1 J        | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Dichloroprop                          | 22 J                | 48 J         | 65-IS03-00                                 | 2/2                    |  |
|              | 1               | Dinoseb                               | 2.5 J               | 5.1 J        | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Pentachlorophenol                     | 0.62 J              | 0.62 J       | 65-IS01-00                                 | 1/2                    |  |
| urface Soil  | Total Metals    | 1 Charles ophenor                     | 1 0.02 3            | 0.02 3       | 03-1301-00                                 | 1/2                    |  |
|              | 1 out Would     | Aluminum                              | 1490                | 9140         | 65-IS03-00                                 | 2/2                    |  |
|              | •               | Barium                                | 5.3                 | 416          | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Beryllium                             | 3.2                 | 3.2          | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Calcium                               | 296                 | 10400        | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Chromium                              | 2.2                 | 10.1         | 65-1803-00                                 | 2/2                    |  |
|              |                 | Cobalt                                | 5.9                 | 5.9          | 65-IS03-00                                 |                        |  |
|              |                 |                                       |                     |              |  | 1/2                    |  |
|              |                 | Copper                                | 0.94<br>994         | 43.1<br>9150 | 65-IS03-00                                 | 2/2                    |  |
|              |                 |                                       | <del></del>         |              | 65-IS03-00                                 |                        |  |
|              |                 | Magnesium                             | 62.4 J              | 951 J        | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Manganese                             | 0.26                | 66.8<br>0.26 | 65-IS03-00                                 | 2/2                    |  |
|              | 1.              | Mercury                               |                     |              | 65-IS03-00                                 | 1/2                    |  |
|              | 1               | Nickel                                | 0.65                | 43.6         | 65-IS03-00                                 | 2/2                    |  |
|              |                 | Potassium                             | 1460                | 1460         | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Scienium                              | 2.2 J               | 2.2 J        | 65-IS03-00                                 | 1/1                    |  |
|              |                 | Sodium                                | 138 J               | 138 J        | 65-IS03-00                                 | 1/2                    |  |
|              |                 | Vanadium<br>Zine                      | 2.1 J<br>13.8       | 176<br>13.8  | 65-IS03-00<br>65-IS03-00                   | 2/2<br>1/2             |  |

TABLE 2

## POST RI SAMPLING - APRIL 2001 OPERABLE UNIT NO. 9 - SITE 65 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Media      | Fraction      | Detected<br>Organics/Inorganics       | Site Concentrations                              |              |  |                        |  |
|------------|---------------|---------------------------------------|--|--------------|--|------------------------|--|
|            |               |                                       | Min. Conc.                                       | Max. Conc.   | Location(s) of<br>Maximum<br>Concentration | Detection<br>Frequency |  |
| Subsurface | Volatiles     |                                       |  |              |  |                        |  |
| Soil       |               | 1,1,2-Trichloro-1,2,2-trifluoroethane | 3 J  | 4 J          | 65-IS02-01                                 | 2/4                    |  |
|            | 1             | 1,2,4-Trichlorobenzene                | 0.7 J  | 0.7 J        | 65-IS02-01                                 | 1/4                    |  |
|            | -             | Chlorobenzene                         | 0.6 J  | 0.6 J        | 65-IS01-03                                 | 1/4                    |  |
|            |               | Toluene                               | 1 J  | 2 J          | 65-IS01-03                                 | 2/4                    |  |
|            |               | Xylenes (Total)                       | 1 J  | 1 J          | 65-IS01-03                                 | 1/4                    |  |
|            | Semivolatiles | 177,101100 (1 0 0 0 1)                | <del>                                     </del> |              |  |                        |  |
|            | Semivolatives | Anthracene                            | 25 J   | 25 J         | 65-IS02-01D                                | 1/4                    |  |
|            |               | Benzo(a)anthracene                    | 82 J   | 82 J         | 65-IS02-01D                                | 1/4                    |  |
|            |               |                                       | 45 J   | 45 J         | 65-IS02-01D                                | 1/4                    |  |
|            |               | Benzo(a)pyrene Benzo(b)fluoranthene   | 110 J  | 110 J        | 65-IS02-01D                                | 1/4                    |  |
|            | 1             |                                       | 54 J   | 54 J         | 65-IS02-01D                                | 1/4                    |  |
|            |               | Benzo(k)fluoranthene                  | 53 J   | 79 J         | 65-IS02-01D                                | 2/4                    |  |
|            |               | Caprolactam<br>Carbazole              | 18 J   | 18 J         | 65-IS02-01D                                | 1/4                    |  |
|            |               |                                       | <del>-  </del>                                   | <del> </del> |  | 1/4                    |  |
| Subsurface | Semivolatiles | Chrysene                              | 100 J  | 100 J        | 65-IS02-01D                                |                        |  |
| Soil       | (continued)   | Fluoranthene                          | 33 J   | 110 J        | 65-IS02-01D                                | 2/4                    |  |
|            |               | Pyrene                                | 22 J   | 94 J         | 65-IS02-01D                                | 2/4                    |  |
|            |               | bis(2-Ethylhexyl)phthalate            | 170 J  | 24000 D      | 65-IS02-01                                 | 4/4                    |  |
|            | Pesticides    |                                       |  |              |  |                        |  |
|            |               | 4,4'-DDD                              | 0.4 J  | 0.64 J       | 65-IS03-03                                 | 2/4                    |  |
|            |               | 4,4'-DDE                              | 0.23 J   | 1.3 J        | 65-IS02-01                                 | 3/4                    |  |
|            |               | 4,4'-DDT                              | 0.49 J   | 3.2 J        | 65-IS02-01                                 | 4/4                    |  |
|            |               | Aldrin                                | 0.086 J  | 0.086 J      | 65-IS03-03                                 | 1/4                    |  |
|            |               | Alpha chlordane                       | 0.12 J   | 0.44 J       | 65-IS02-01                                 | 3/4                    |  |
|            |               | Alpha-BHC                             | 0.4 J  | 0.42 J       | 65-IS03-03                                 | 2/4                    |  |
|            |               | Beta-BHC                              | 0.19 J   | 0.54 J       | 65-IS01-03                                 | 2/4                    |  |
|            |               | Bett-Dric                             | 0.15 3   | 0.54 7       | 65-IS01-03, 65-                            |                        |  |
|            |               | Delta-BHC                             | 0.12 J   | 0.12 J       | IS03-03                                    | 2/4                    |  |
|            |               | Dieldrin                              | 0.51 J   | 0.51 J       | 65-IS03-03                                 | 1/4                    |  |
|            |               | Endosulfan I                          | 1.4 J  | 1.4 J        | 65-IS02-01D                                | 1/4                    |  |
|            |               | Endosulfan II                         | 0.065 J  | 0.79 J       | 65-IS02-01D                                | 3/4                    |  |
|            | 1             |                                       | 0.003 J  | 0.19 J       | 65-IS03-03                                 | 1/4                    |  |
|            |               | Endosulfan sulfate                    |  |              |  | 2/4                    |  |
|            |               | Endrin                                | 0.086 J  | 0.21 J       | 65-IS01-03                                 |                        |  |
|            |               | Endrin aldehyde                       | 0.066 J  | 0.066 J      | 65-IS03-03                                 | 1/4                    |  |
|            |               | Endrin ketone                         | 0.42 J   | 0.42 J       | 65-IS03-03                                 | 1/4                    |  |
|            |               | Gamma chlordane                       | 1.6 J  | 1.8 J        | 65-IS02-01                                 | 2/4                    |  |
|            |               | Gamma-BHC (Lindane)                   | 0.055 J  | 0.055 J      | 65-IS03-03                                 | 1/4                    |  |
|            | 1             | Heptachlor                            | 0.038 J  | 0.2 J        | 65-IS01-03                                 | 2/4                    |  |
|            |               | Heptachlor epoxide                    | 0.047 J  | 0.047 J      | 65-IS03-03                                 | 1/4                    |  |
|            |               | p,p'-Methoxychlor                     | 1.3 J  | 33 J         | 65-IS01-03                                 | 3/4                    |  |
|            | Herbicides    |                                       |  |              |  |                        |  |
|            |               | 2,4-D                                 | 5.4 J  | 11 J         | 65-IS02-01D                                | 2/4                    |  |
|            |               | 2,4-DB                                | 21 J   | 31           | 65-IS01-03                                 | 3/4                    |  |
|            |               | 4-Nitrophenol                         | 2.1 J  | 5.3 J        | 65-IS02-01                                 | 3/4                    |  |
|            |               | Dalapon                               | 4.7 J  | 33 J         | 65-IS02-01                                 | 4/4                    |  |
|            |               | Dichloroprop                          | 19 J   | 23 J         | 65-IS02-01D                                | 3/4                    |  |
|            |               | Dinoseb                               | 2.6 J  | 2.7 J        | 65-IS02-01D                                | 3/4                    |  |
|            | 1             | Pentachlorophenol                     | 0.24 J   | 0.29 J       | 65-IS02-01D                                | 2/4                    |  |

TABLE 2

## POST RI SAMPLING - APRIL 2001 OPERABLE UNIT NO. 9 - SITE 65 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Media       | Fraction          | Detected<br>Organics/Inorganics       | Site Concentrations |            |  |                        |
|-------------|-------------------|---------------------------------------|---------------------|------------|--|------------------------|
|             |                   |                                       | Min. Conc.          | Max. Conc. | Location(s) of<br>Maximum<br>Concentration | Detection<br>Frequency |
| Subsurface  | Total Metals      |                                       |                     |            |  |                        |
| Soil        |                   | Aluminum                              | 1350                | 2690       | 65-IS02-01D                                | 4/4                    |
|             |                   | Arsenic                               | 0.32 J              | 0.66 J     | 65-IS02-01D                                | 4/4                    |
|             |                   | Barium                                | 6.3                 | 7.7        | 65-IS02-01                                 | 4/4                    |
|             |                   | Calcium                               | 125                 | 945        | 65-IS02-01D                                | 4/4                    |
|             |                   | Chromium                              | 2.2                 | 2.8        | 65-IS01-03                                 | 4/4                    |
|             | 1                 | Copper                                | 0.83                | 1.5        | 65-IS01-03                                 | 4/4                    |
|             | İ                 | Iron                                  | 786                 | 1530       | 65-IS01-03                                 | 4/4                    |
|             | •                 | Lead                                  | 2.3                 | 2.3        | 65-IS01-03                                 | 1/4                    |
|             |                   | Magnesium                             | 49.8 J              | 108 J      | 65-IS02-01D                                | 4/4                    |
|             |                   | Manganese                             | 13.7                | 18.2       | 65-IS01-03                                 | 3/4                    |
|             |                   | Nickel                                | 0.81                | 0.95       | IS03-03                                    | 4/4                    |
|             |                   | Sodium                                | 27 J                | 320        | 65-IS02-01D                                | 2/4                    |
|             |                   | Vanadium                              | 1.8 J               | 3.5        | 65-IS02-01D                                | 4/4                    |
| Groundwater | Volatiles         |                                       |                     |            | 44 1000 CH101                              |                        |
|             |                   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.2 J               | 0.2 J      | 65-IS03-GW01                               | 1/3                    |
|             |                   | Acetone                               | 4 J                 | 4 J        | 65-IS02-GW01                               | 1/2                    |
|             |                   | Carbon disulfide                      | 0.2 J               | 0.2 J      | 65-IS02-GW01D                              | 1/4                    |
|             |                   | Ethylbenzene                          | 0.2 J               | 0.2 J      | IS02-GW01D                                 | 2/4                    |
|             | m . 13 ( . 1      | Methylene chloride                    | 0.7                 | 0.7        | 65-IS01-GW01                               | 1/4                    |
|             | Total Metals      |                                       | 2620                | 22222      | 26 YOU CANTOL                              | 4/4                    |
|             |                   | Aluminum                              | 3530                | 22200      | 65-IS01-GW01                               | 4/4                    |
|             |                   | Barium                                | 33.2                | 75         | 65-IS01-GW01                               | 4/4                    |
|             |                   | Calcium                               | 13900               | 29100      | 65-IS03-GW01                               | 4/4                    |
|             |                   | Chromium                              | 4.4 J               | 27.9       | 65-IS01-GW01                               | 4/4                    |
|             |                   | Cobalt                                | 0.47 J              | 4.7 J      | 65-IS01-GW01                               | 4/4                    |
|             |                   | Copper                                | 2.6 J               | 8.6        | 65-IS01-GW01                               | 3/4                    |
|             |                   | Iron                                  | 5270                | 13200      | 65-IS01-GW01                               | 4/4                    |
|             |                   | Lead                                  | 2.1 J               | 14.5       | 65-IS01-GW01                               | 4/4                    |
|             | ·                 | Magnesium                             | 1490                | 2690       | 65-IS01-GW01                               | 4/4                    |
|             |                   | Manganese                             | 85.8                | 166        | 65-IS01-GW01                               | 4/4                    |
|             |                   | Mercury                               | 0.11 J              | 0.11 J     | 65-IS01-GW01                               | 1/4                    |
|             |                   | Nickel                                | 5.8                 | 14.3       | 65-IS01-GW01                               | 3/4                    |
| Groundwater | Total Metals      | Potassium                             | 1100                | 1660       | 65-IS01-GW01                               | 4/4                    |
|             | (continued)       | Selenium                              | 2.5 J               | 2.5 J      | 65-IS01-GW01                               | 1/4                    |
|             |                   | Sodium                                | 8800 J              | 13300 J    | 65-IS03-GW01                               | 4/4                    |
|             |                   | Vanadium                              | 5.7 J               | 18 J       | 65-IS01-GW01                               | 4/4                    |
|             | Discolar d Matala | Zine                                  | 2.7 J               | 15.2 J     | 65-IS01-GW01                               | 3/4                    |
|             | Dissolved Metals  | Aluminum                              | 3530                | 22200      | 65-IS01-GW01                               | 4/4                    |
|             |                   | Antimony                              | 1.8 J               | 1.8 J      | 65-IS02-GW01D                              | 1/4                    |
|             |                   | Barium                                | 33.2                | 75         | 65-IS01-GW01                               | 4/4                    |
|             |                   | Calcium                               | 13900               | 29100      | 65-IS03-GW01                               | 4/4                    |
|             |                   | Chromium                              | 4.4 J               | 27.9       | 65-IS01-GW01                               | 4/4                    |
|             |                   | Iron                                  | 5270                | 13200      | 65-IS01-GW01                               | 4/4                    |
|             |                   | Lead                                  | 2.1 J               | 14.5       | 65-IS01-GW01                               | 4/4                    |
|             |                   |                                       | 1490                | 2690       | 65-IS01-GW01                               | 4/4                    |
|             |                   | Magnesium<br>Manganese                | 85.8                | 166        | 65-IS01-GW01                               | 4/4                    |
|             |                   |                                       |                     | 1660       | 65-IS01-GW01                               | ~                      |
|             |                   | Potassium<br>Sodium                   | 1100<br>8800 J      | 13300 J    | 65-IS03-GW01                               | 4/4                    |



